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<p>(21) International Application Number: PCT/US99/00627</p> <p>(22) International Filing Date: 11 January 1999 (11.01.99)</p> <p>(30) Priority Data: 09/035,909 6 March 1998 (06.03.98) US</p> <p>(71) Applicant: THE GOVERNMENT OF THE UNITED STATES OF AMERICA as represented BY THE SECRETARY OF THE NAVY [US/US]; Naval Research Laboratory, Code 3008.2, 4555 Overlook Avenue, S.W., Washington, DC 20375-5325 (US).</p> <p>(72) Inventors: ANTONIADES, John, A.; 7522 Cherry Tree Drive, Fulton, MD 20759 (US). BAUMBACK, Mark, M.; 6710 Baltimore Avenue, University Park, MD 20782 (US). BOWLES, Jeffrey, A.; 4102 Sulgrave Drive, Alexandria, VA 22039 (US). GROSSMANN, John, M.; 7905 Roswell Drive, Falls Church, VA 22043 (US). HAAS, Daniel, G.; 901 Malboro Road, Lothian, MD 20711 (US). PALMADESSO, Peter, J.; 5895 Paine Run Place, Manassas, VA 20112 (US).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> Without international search report and to be republished upon receipt of that report.</p>
(54) Title: COMPRESSION OF HYPERDATA WITH ORASIS MULTISEGMENT PATTERN SETS (CHOMPS)		
<p>(57) Abstract</p> <p>The Intelligent Hypersensor Processing System (IHPS) is a system for the rapid detection of small, weak, or hidden objects, substances, or patterns embedded in complex backgrounds, providing fast adaptive processing for demixing and recognizing patterns or signatures in data provided by certain types of "hypersensors". This system represents an alternative to prior systems for hidden object detection by solving the problems encountered when attempting to detect hidden objects/targets in dynamic scenarios at real-time. The CHOMPS version of IHPS provides an efficient means of processing, compressing and manipulating the vast quantities of data collected by the sensors. CHOMPS uses the Adaptive Learning Module Pipeline to construct a compressed data set, along with the necessary scene mapping data, facilitating the efficient storage, download and the later reconstruction of the complete data set with minimal deterioration of signal information.</p>		

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